

Compilation on SGI-Altix ...

[sntnello](#) 6 posts since

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Hi-

Bart is working to compile LIS_5.0 on the KNMI mainframe computer which is an SGI-Altix. He is encountering errors in the linking which probably means a missing flag. Here is the result of the compilation that includes what flags he has set and the resulting errors. Thanks - Joe

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Building version file version.F90 sh build_version.sh ifort -c -O2 -DHIDE_SHR_MSG -DNO_SHR_VMATH  
-convert little_endian -i4 -I/usr/people/hurkvd/LIS/ESMF/esmf/mod/modO/Linux.intel.64.mpi.default  
-I/project/sw/knmi/dist/netcdf-3.6.1/include -I. -I../offline -I../core -I../plugins -I../domains/latlon -I../domains/gswp  
-I../domains/polar -I../domains/lambert -I../domains/merc -I../domains/catchment -I../domains/gaussian  
-I../runmodes/retrospective -I../runmodes/wrf_cpl_mode -I../runmodes/GAoptimization -I../params/albedo/latlon  
-I../params/albedo/gswp -I../params/albedo/polar -I../params/albedo/lambert -I../params/albedo/merc  
-I../params/albedo/gaussian -I../params/topo/latlon -I../params/topo/polar -I../params/topo/lambert  
-I../params/topo/merc -I../params/topo/gaussian -I../params/gfrac/latlon -I../params/gfrac/polar -I../params/gfrac/gswp  
-I../params/gfrac/lambert -I../params/gfrac/merc -I../params/gfrac/catchment -I../params/gfrac/gaussian  
-I../params/lai/latlon -I../params/lai/gswp -I../params/lai/polar -I../params/lai/lambert -I../params/lai/merc  
-I../params/lai/catchment -I../params/soils/latlon -I../params/soils/gswp -I../params/soils/polar -I../params/soils/lambert  
-I../params/soils/merc -I../params/soils/gaussian -I../params/landcover/latlon -I../params/landcover/polar  
-I../params/landcover/lambert -I../params/landcover/merc -I../params/landcover/gaussian -I../params/tbot/latlon  
-I../params/tbot/gswp -I../params/tbot/polar -I../params/tbot/lambert -I../params/tbot/merc -I../params/tbot/gaussian  
-I../interp -I../baseforcing/template -I../baseforcing/gdas -I../baseforcing/geos -I../baseforcing/ecmwfreanal  
-I../baseforcing/nldas -I../baseforcing/ecmwf -I../baseforcing/gswp -I../baseforcing/gswp1 -I../baseforcing/nldas2  
-I../baseforcing/saldas -I../baseforcing/princeton -I../baseforcing/rhone -I../suppforcing/agrrad -I../suppforcing/stg2  
-I../suppforcing/stg4 -I../suppforcing/cmap -I../suppforcing/3B42RT -I../suppforcing/3B42V6 -I../suppforcing/cmorph  
-I../suppforcing/ceop -I../suppforcing/scan -I../lsms/template -I../lsms/noah.2.7.1 -I../lsms/noah.2.7.1/da_snow  
-I../lsms/noah.2.7.1/da_soilm -I../lsms/noah.2.7.1/da_sca -I../lsms/noah.2.7.1/cpl_wrf -I../lsms/clm2  
-I../lsms/clm2/main -I../lsms/clm2/biogeophys -I../lsms/clm2/camclm_share -I../lsms/clm2/csm_share  
-I../lsms/clm2/ecosysdyn -I../lsms/clm2/cpl_wrf -I../lsms/vic -I../lsms/mosaic -I../lsms/hyssib -I../lsms/SiB2  
-I../lsms/catchment -I../lsms/catchment/da_soilm -I../lsms/mlbc -I../lsms/tessel -I../lsms/tessel/phys  
-I../lsms/tessel/commons -I../lsms/tessel/cpl_wrf -I../dataassim/perturb/static -I../dataassim/perturb/gmaopert  
-I../dataassim/algorithm/di -I../dataassim/algorithm/gmaoenkf -I../dataassim/obs/syntheticsm1  
-I../dataassim/obs/syntheticsm2 -I../dataassim/obs/syntheticswe1 -I../dataassim/obs/syntheticsca  
-I../dataassim/obs/AMSR_Esm -I../offline version.F90 rm version.F90 ifort -o LIS AMSREsmobs_module.o  
Allocation.o BalanceCheck.o BareGroundFluxes.o Biogeophysics1.o Biogeophysics2.o Biogeophysics_Lake.o  
CalcAerodynamic.o CanopyFluxes.o CombineSnowLayers.o Combo.o DivideSnowLayers.o Drainage.o  
EcosystemDyn.o FTable.o Fire.o FireSeason.o FrictionVelocity.o GAoptimization_runMod.o Hydrology1.o  
Hydrology2.o Hydrology_Lake.o Infiltration.o Kill.o LIS_alb_FTable.o LIS_dataassim_FTable.o  
LIS_domain_FTable.o LIS_forcing_FTable.o LIS_gfrac_FTable.o LIS_laisai_FTable.o LIS_landcover_FTable.o  
LIS_lsm_FTable.o LIS_perturb_FTable.o LIS_runmode_FTable.o LIS_snowd_FTable.o LIS_soils_FTable.o  
LIS_suppforcing_FTable.o LIS_tbot_FTable.o LIS_topo_FTable.o LatentHCond.o LitterSOM.o MoninObukIn.o  
Mortality.o PhaseChange.o Phenology.o QSatclm.o Reproduction.o SFLXALL_SRC_VER_2.7.1.o  
SensibleHCond.o SnowAge.o SnowAlbedo.o SnowCompaction.o SnowPackEnergyBalance.o SnowWater.o  
SoilAlbedo.o SoilTemperature.o SoilThermProp.o SoilWater.o StabilityCorrection.o StabilityFunc.o  
Stomata.o SurfaceAlbedo.o SurfaceRadiation.o SurfaceRunoff.o TRMM3B42RTdomain_module.o  
TRMM3B42RTforcing_finalize.o TRMM3B42V6domain_module.o TRMM3B42V6forcing_finalize.o Tridiagonal.o  
Turnover.o TwoStream.o WetIceHydrology.o abor1.o abort_surf_mod.o accumDGVM.o accumulMod.o
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agrrad_finalize.o agrrad_module.o albedo_module.o areaMod.o arno_evap.o atm_IndMod.o atmdrvMod.o baseforcing_module.o baseforcing_pluginMod.o bilinear_interp.o bilinear_interp_input.o breakpt_module.o calc_rainonly.o calc_root_fraction.o calc_surf_energy_bal.o calc_veg_params.o calculate_domveg.o calendr.o callpar1s.o canhtset.o canopy_evap.o cat_binout.o cat_descale_soilm.o cat_dump_param.o cat_dynsetup.o cat_f2t.o cat_finalize.o cat_getsoilm.o cat_getsynsmpred.o cat_main.o cat_netcdfout.o cat_output.o cat_qcsoilm.o cat_readrestart.o cat_scale_soilm.o cat_setsoilm.o cat_setup.o cat_totinit.o cat_update_soilm.o cat_varder.o cat_writerestart.o catch_constants.o catch_diagn_routines.o catch_types.o catchment_model.o ceopdomain_module.o ceopforcing_finalize.o check_error.o clm2_wrf_f2t.o clm_binout.o clm_dynsetup.o clm_finalize.o clm_gribout.o clm_main.o clm_output.o clm_readrestart.o clm_setup.o clm_setwrfexport.o clm_totinit.o clm_varcon.o clm_varder.o clm_varpar.o clm_varsur.o clm_writerestart.o clmlairead.o clmtype.o clsm_para_mapping.o cmapdomain_module.o cmapforcing_finalize.o cmordomain_module.o cmorforcing_finalize.o cnt21s.o cnt31s.o cnt41s.o compute_dz.o compute_earth_coord.o compute_earth_coord_ease.o compute_earth_coord_gauss.o compute_earth_coord_hrap.o compute_earth_coord_lambert.o compute_earth_coord_latlon.o compute_earth_coord_merc.o compute_earth_coord_polar.o compute_grid_coord.o compute_grid_coord_ease.o compute_grid_coord_gauss.o compute_grid_coord_hrap.o compute_grid_coord_lambert.o compute_grid_coord_latlon.o compute_grid_coord_merc.o compute_grid_coord_polar.o compute_stnwts.o conserv_interp.o conserv_interp_input.o constantsMod.o cpedia1s.o cpg1s.o cptave_mod.o create_vegtilespace_gaussian.o create_vegtilespace_lambert.o create_vegtilespace_latlon.o create_vegtilespace_merc.o create_vegtilespace_polar.o createtiles_catch.o createtiles_gaussian.o createtiles_gswp.o createtiles_lambert.o createtiles_latlon.o createtiles_merc.o createtiles_polar.o dataassim_module.o dataassim_pluginMod.o dataobs_pluginMod.o datetime.o dattim.o defineLocalDomain.o directInsertion_module.o domain_module.o domain_pluginMod.o drvCatch_types.o drv_output_mod.o ecmwfdomain_module.o ecmwfforcing_finalize.o ecmwfreanaldomain_module.o ecmwfreanalforcing_finalize.o endrun.o enkf_general.o enkf_types.o esat_qsat.o estimate_T1.o ezlh_convert.o ezlh_inverse.o fileutils.o finterp.o free_vars.o frozen_soil.o full_energy.o func_surf_energy_bal.o gasdev.o gauaw_mod.o gaussian_mod.o gausslat.o gdasdomain_module.o gdasforcing_finalize.o geogfill2.o geosdomain_module.o geosforcing_finalize.o getNSO_AMSREsm.o getNSO_synsca.o getNSO_synsm1.o getNSO_synsm2.o getNSO_synswe1.o getTRMM3B42RT.o getTRMM3B42V6.o get_fieldpos.o get_vicrstvar.o get_vicvar.o getagrrad.o getceop.o getcmap.o getcmor.o getecmwf.o getecmwfreanal.o getgdas.o getgeos.o getgswp.o getgswp1.o getnladas.o getnladas2.o getprinceton.o getrhone.o getsaldas.o getscan.o getstg2.o getstg4.o gettemplate.o gfrac_module.o glbp precip_TRMM3B42RT.o glbp precip_TRMM3B42V6.o glbp precip_cmap.o glbp precip_cmor.o gmaoenkf_module.o gmao pert_Mod.o grib_module.o grid_module.o gswp1domain_module.o gswp1forcing_finalize.o gswp_fillgaps.o gswp_module.o gswpdomain_module.o gswpforcing_finalize.o hrapToLatLon.o hyssib_binout.o hyssib_coldstart.o hyssib_dynsetup.o hyssib_f2t.o hyssib_finalize.o hyssib_gfrac.o hyssib_main.o hyssib_mapvegc.o hyssib_module.o hyssib_output.o hyssib_reacd.o hyssib_readrst.o hyssib_setbot.o hyssib_settopostd.o hyssib_setup.o hyssib_setvegparms.o hyssib_totinit.o hyssib_varder.o hyssib_writest.o hyssibalb_module.o hyssibveg_module.o ibm.o idw_module.o incdat.o infnan.o iniTimeConst.o iniTimeVar.o initialize_model_state.o initialize_model_state2.o initialize_snow.o initialize_soil.o initialize_veg.o interp_TRMM3B42RT.o interp_TRMM3B42V6.o interp_cmap.o interp_cmor.o interp_nladas.o interp_stg2.o interp_stg4.o interp_stndata.o ioFileMod.o lai_module.o landpert_module.o landpert_routines.o lapseRateCorrection.o latlonTohrap.o latlonTopolar.o linebuf_stdout.o lisWRFGridCompMod.o lis_fileIOMod.o lis_fileUnitsMod.o lis_log_msgC.o lis_logmod.o lis_memory_managementC.o lis_module.o lis_process_cmd_args.o lisdrv.o lisdrv_module.o listask_for_point.o listime_mgr.o liswrfexport_module.o liswrfimport_module.o liswrfinit_coupled.o liswrfrun_coupled.o lltops.o lnd_atmMod.o lsm_module.o lsm_pluginMod.o lsmcpl_pluginMod.o lsmda_pluginMod.o make_cell_data.o make_dist_prcp.o make_energy_bal.o make_snow_data.o make_veg_var.o makepdsn.o map_utils.o mapsib2umd.o massrelease.o microMetCorrection.o modify_Ksat.o modis_alb_types.o mos_binout.o mos_coldstart.o mos_f2t.o mos_finalize.o mos_gribout.o mos_main.o mos_module.o mos_output.o mos_readrestart.o mos_setup.o mos_tile.o mos_totinit.o mos_varder.o mos_writest.o mosdynp.o mpishorthand.o mpl_module.o mqb_module.o my_lu_decomp.o my_matrix_functions.o neighbor_interp.o neighbor_interp_input.o 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read_lcmxsnoalb.o read_ll_avhrrlai.o read_ll_avhrrsai.o read_ll_modislai.o read_ll_modissai.o read_llalbedo.o
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read_ps_modislai.o read_ps_modissai.o read_psalbedo.o read_psgfrac.o read_psmxsnalb.o read_saldas_elev.o
read_slope_gtopo30.o read_snowband.o read_soils.o read_statictbot.o read_statsgoclay.o read_statsgocolor.o
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readbon.o readcard.o readcatchcrd.o readceop.o readceopcrd.o readclmcrd.o readcmapcrd.o readcmorcrd.o
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readininput_gswp.o readininput_lambert.o readininput_latlon.o readininput_merc.o readininput_polar.o readkpds.o
readmoscrd.o readnldas2crd.o readnldascrd.o readnoahcrd.o readprincetoncrd.o readrhone.o readrhonecrd.o
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retsaldas.o rhonedomain_module.o rhoneforcing_finalize.o root_brent.o rst_state.o runmode_pluginMod.o runoff.o
sai_module.o saldasdomain_module.o saldasforcing_finalize.o scandomain_module.o scanforcing_finalize.o
set_parammap.o set_soilparam.o setmosp.o sh2o_init.o shr_const_mod.o shr_file_mod.o shr_kind_mod.o
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snow_module.o snow_utility.o snowdp2lev.o soil_conduction.o soil_thermal_eqn.o soils_module.o soiltype.o

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solve_snow.o spmdMod.o sppcfl_mod.o sppgust_mod.o srfene_mod.o srfi_mod.o srfrcg_mod.o srfrrootfr_mod.o
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staticPerturbMod.o stats.o stats_da.o step01s.o stg2_finalize.o stg2domain_module.o stg2file.o stg4_finalize.o
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sucst.o suct01s.o sudim1s.o sudyn1s.o sufcdf.o sugc1s.o sugdi1s.o sugp1s.o sugpd1s.o suinif1s.o sulun1s.o
sulwn.o suphec.o suppforcing_module.o suppforcing_pluginMod.o surdi.o surdi1s.o surfFileMod.o surf_inq.o
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tess_set_cvl.o tess_set_tvh.o tess_set_tvl.o tess_settopostd.o tess_setup.o tess_setwrlexport.o tess_totinit.o
tess_varder.o tess_wrf_f2t.o tess_writerst.o texture.o tile_coord_routines.o tile_coord_types.o
tile_module.o time_interp_3B42RT.o time_interp_TRMM3B42V6.o time_interp_agrrad.o time_interp_ceop.o
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time_interp_geos.o time_interp_gswp.o time_interp_gswp1.o time_interp_nldas.o time_interp_nldas2.o
time_interp_princeton.o time_interp_rhone.o time_interp_saldas.o time_interp_scan.o time_interp_stg2.o
time_interp_stg4.o time_interp_template.o turb.o umd_sibalb.o updcal.o upddiag.o updtim1s.o vdfdifc.o vdfdifh1s.o
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..lib/read_grb/readgrb.a ..lib/grb/griblib.a -L/usr/people/hurkvd/LIS/ESMF/esmf/lib/libO/Linux.intel.64.mpi.default
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```
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```
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`registerlsmdynsetup_` lsm_pluginMod.o(.text+0xaf2): In function `lsm_pluginmod_mp_lsm_plugin_':
: undefined reference to `registerlsmoutput_` lsm_pluginMod.o(.text+0xb12): In function
`lsm_pluginmod_mp_lsm_plugin_': undefined reference to `registerlsmwrst_` lsm_pluginMod.o(.text+0xb32):
In function `lsm_pluginmod_mp_lsm_plugin_': undefined reference to `registerlsmfinalize_'
lsmcpl_pluginMod.o(.text+0x72): In function `lsmcpl_pluginmod_mp_lsmcpl_plugin_': undefined reference
to `registerlsmf2t_` lsmcpl_pluginMod.o(.text+0xa2): In function `lsmcpl_pluginmod_mp_lsmcpl_plugin_':
: undefined reference to `registerlsmexport_` lsmcpl_pluginMod.o(.text+0xd2): In function
`lsmcpl_pluginmod_mp_lsmcpl_plugin_': undefined reference to `registerlsmf2t_` lsmcpl_pluginMod.o(.text+0x102):
In function `lsmcpl_pluginmod_mp_lsmcpl_plugin_': undefined reference to `registerlsmexport_'
lsmcpl_pluginMod.o(.text+0x132): In function `lsmcpl_pluginmod_mp_lsmcpl_plugin_': undefined reference to
`registerlsmf2t_` lsmcpl_pluginMod.o(.text+0x162): In function `lsmcpl_pluginmod_mp_lsmcpl_plugin_': undefined
reference to `registerlsmexport_` lsmda_pluginMod.o(.text+0x72): In function `lsmda_pluginmod_mp_lsmda_plugin_':
: undefined reference to `registergetstatevar_` lsmda_pluginMod.o(.text+0xa2): In function
`lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to `registersetstatevar_'
lsmda_pluginMod.o(.text+0xd2): In function `lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to
`registergetobspred_` lsmda_pluginMod.o(.text+0x102): In function `lsmda_pluginmod_mp_lsmda_plugin_':
: undefined reference to `registerqclsmstate_` lsmda_pluginMod.o(.text+0x132): In function
`lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to `registerscalelsmstatevar_'
lsmda_pluginMod.o(.text+0x162): In function `lsmda_pluginmod_mp_lsmda_plugin_': undefined
reference to `registerdescalelsmstatevar_` lsmda_pluginMod.o(.text+0x192): In function
`lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to `registerupdatestmstate_'
lsmda_pluginMod.o(.text+0x1c2): In function `lsmda_pluginmod_mp_lsmda_plugin_': undefined reference
to `registergetstatevar_` lsmda_pluginMod.o(.text+0x1f2): In function `lsmda_pluginmod_mp_lsmda_plugin_':
: undefined reference to `registergetstatevar_` lsmda_pluginMod.o(.text+0x222): In function
`lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to `registergetobspred_'
lsmda_pluginMod.o(.text+0x252): In function `lsmda_pluginmod_mp_lsmda_plugin_': undefined reference
to `registerqclsmstate_` lsmda_pluginMod.o(.text+0x282): In function `lsmda_pluginmod_mp_lsmda_plugin_':
: undefined reference to `registerdescalelsmstatevar_` lsmda_pluginMod.o(.text+0x2b2): In function
`lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to `registerdescalelsmstatevar_'
lsmda_pluginMod.o(.text+0x2e2): In function `lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to
`registerupdatestmstate_` lsmda_pluginMod.o(.text+0x312): In function `lsmda_pluginmod_mp_lsmda_plugin_':
: undefined reference to `registergetstatevar_` lsmda_pluginMod.o(.text+0x342): In function
`lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to `registersetstatevar_'
```

```
lsmda_pluginMod.o(.text+0x372): In function `lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to
`registerobstransform_'
lsmda_pluginMod.o(.text+0x3a2): In function `lsmda_pluginmod_mp_lsmda_plugin_':
undefined reference to `registermapobstolsm_'
lsmda_pluginMod.o(.text+0x3d2): In function
`lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to `registerupdatelsmstate_'
lsmda_pluginMod.o(.text+0x402): In function `lsmda_pluginmod_mp_lsmda_plugin_': undefined reference
to `registergetstatevar_'
lsmda_pluginMod.o(.text+0x432): In function `lsmda_pluginmod_mp_lsmda_plugin_':
undefined reference to `registersetstatevar_'
lsmda_pluginMod.o(.text+0x462): In function
`lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to `registergetobspred_'
lsmda_pluginMod.o(.text+0x492): In function `lsmda_pluginmod_mp_lsmda_plugin_': undefined reference
to `registerqclsmstate_'
lsmda_pluginMod.o(.text+0x4c2): In function `lsmda_pluginmod_mp_lsmda_plugin_':
undefined reference to `registerscalelsmstatevar_'
lsmda_pluginMod.o(.text+0x4f2): In function
`lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to `registerdescalselmsstatevar_'
lsmda_pluginMod.o(.text+0x522): In function `lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to
`registerupdatelsmstate_'
lsmda_pluginMod.o(.text+0x552): In function `lsmda_pluginmod_mp_lsmda_plugin_':
undefined reference to `registergetstatevar_'
lsmda_pluginMod.o(.text+0x582): In function
`lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to `registersetstatevar_'
lsmda_pluginMod.o(.text+0x5b2): In function `lsmda_pluginmod_mp_lsmda_plugin_': undefined reference
to `registergetobspred_'
lsmda_pluginMod.o(.text+0x5e2): In function `lsmda_pluginmod_mp_lsmda_plugin_':
undefined reference to `registerqclsmstate_'
lsmda_pluginMod.o(.text+0x612): In function
`lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to `registerscalelsmstatevar_'
lsmda_pluginMod.o(.text+0x642): In function `lsmda_pluginmod_mp_lsmda_plugin_': undefined reference to
`registerdescalselmsstatevar_'
lsmda_pluginMod.o(.text+0x672): In function `lsmda_pluginmod_mp_lsmda_plugin_':
undefined reference to `registerupdatelsmstate_'
noah_settbot.o(.text+0x1862): In function
`noah_settbot_': undefined reference to `readtbot_'
observations_module.o(.text+0x152): In
function `observations_module_mp_lis_readobservations_': undefined reference to `readdaobs_'
observations_module.o(.text+0x5b2): In function `observations_module_mp_lis_perturb_observations_':
undefined reference to `perturbmethod_'
observations_module.o(.text+0x1632): In function
`observations_module_mp_lis_initobservations_': undefined reference to `readobsdataconfig_'
observations_module.o(.text+0x1f92): In function `observations_module_mp_lis_initobservations_':
undefined reference to `perturbinit_'
param_pluginMod.o(.text+0x72): In function `param_pluginmod_mp_topo_plugin_':
undefined reference to `registerreadelev_'
param_pluginMod.o(.text+0xa2): In function
`param_pluginmod_mp_topo_plugin_': undefined reference to `registerreadslope_'
param_pluginMod.o(.text+0xd2): In function `param_pluginmod_mp_topo_plugin_':
undefined reference to `registerreadaspect_'
param_pluginMod.o(.text+0x102): In function `param_pluginmod_mp_topo_plugin_': undefined reference to
`registerreadcurv_'
param_pluginMod.o(.text+0x132): In function `param_pluginmod_mp_topo_plugin_': undefined reference to
`registerreadelev_'
param_pluginMod.o(.text+0x162): In function `param_pluginmod_mp_topo_plugin_':
undefined reference to `registerreadelev_'
param_pluginMod.o(.text+0x192): In function
`param_pluginmod_mp_topo_plugin_': undefined reference to `registerreadelev_'
param_pluginMod.o(.text+0x1c2): In function `param_pluginmod_mp_topo_plugin_':
undefined reference to `registerreadelev_'
param_pluginMod.o(.text+0x232): In function `param_pluginmod_mp_soils_plugin_': undefined reference to
`registerreadsand_'
param_pluginMod.o(.text+0x262): In function `param_pluginmod_mp_soils_plugin_': undefined reference to
`registerreadclay_'
param_pluginMod.o(.text+0x292): In function `param_pluginmod_mp_soils_plugin_':
undefined reference to `registerreadsilt_'
param_pluginMod.o(.text+0x2c2): In function
`param_pluginmod_mp_soils_plugin_': undefined reference to `registerreadcolor_'
param_pluginMod.o(.text+0x2f2): In function `param_pluginmod_mp_soils_plugin_':
undefined reference to `registerreadporosity_'
param_pluginMod.o(.text+0x322): In function `param_pluginmod_mp_soils_plugin_': undefined reference to
`registerreadsoiltexture_'
param_pluginMod.o(.text+0x352): In function `param_pluginmod_mp_soils_plugin_':
undefined reference to `registerreadsand_'
param_pluginMod.o(.text+0x382): In function
`param_pluginmod_mp_soils_plugin_': undefined reference to `registerreadclay_'
param_pluginMod.o(.text+0x3b2): In function `param_pluginmod_mp_soils_plugin_':
undefined reference to `registerreadsilt_'
param_pluginMod.o(.text+0x3e2): In function `param_pluginmod_mp_soils_plugin_': undefined reference to
`registerreadcolor_'
param_pluginMod.o(.text+0x412): In function `param_pluginmod_mp_soils_plugin_':
undefined reference to `registerreadsand_'
param_pluginMod.o(.text+0x442): In function
`param_pluginmod_mp_soils_plugin_': undefined reference to `registerreadclay_'
param_pluginMod.o(.text+0x472): In function
```



```
param_pluginMod.o(.text+0x1582): In function `param_pluginmod_mp_gfrac_plugin_': undefined reference to `registerreadgfrac_'
param_pluginMod.o(.text+0x15b2): In function `param_pluginmod_mp_gfrac_plugin_': undefined reference to `registerreadgfrac_'
param_pluginMod.o(.text+0x15e2): more undefined references to `registerreadgfrac_'
follow param_pluginMod.o(.text+0x1672): In function `param_pluginmod_mp_alb_plugin_':
undefined reference to `registerreadmxsnoalb_'
param_pluginMod.o(.text+0x16a2): In function `param_pluginmod_mp_alb_plugin_': undefined reference to `registerreadalbedo_'
param_pluginMod.o(.text+0x16d2): In function `param_pluginmod_mp_alb_plugin_': undefined reference to `registerreadmxsnoalb_'
param_pluginMod.o(.text+0x1702): In function `param_pluginmod_mp_alb_plugin_': undefined reference to `registerreadalbedo_'
param_pluginMod.o(.text+0x1732): In function `param_pluginmod_mp_alb_plugin_': undefined reference to `registerreadmxsnoalb_'
param_pluginMod.o(.text+0x1762): In function `param_pluginmod_mp_alb_plugin_': undefined reference to `registerreadalbedo_'
param_pluginMod.o(.text+0x1792): In function `param_pluginmod_mp_alb_plugin_': undefined reference to `registerreadmxsnoalb_'
param_pluginMod.o(.text+0x17c2): In function `param_pluginmod_mp_alb_plugin_': undefined reference to `registerreadalbedo_'
param_pluginMod.o(.text+0x17f2): In function `param_pluginmod_mp_alb_plugin_': undefined reference to `registerreadmxsnoalb_'
param_pluginMod.o(.text+0x1822): In function `param_pluginmod_mp_alb_plugin_': undefined reference to `registerreadalbedo_'
param_pluginMod.o(.text+0x1852): In function `param_pluginmod_mp_alb_plugin_': undefined reference to `registerreadmxsnoalb_'
param_pluginMod.o(.text+0x1882): In function `param_pluginmod_mp_alb_plugin_': undefined reference to `registerreadalbedo_'
perturb_pluginMod.o(.text+0x72): In function `perturb_pluginmod_mp_perturb_plugin_': undefined reference to `registerperturbinit_'
perturb_pluginMod.o(.text+0x92): In function `perturb_pluginmod_mp_perturb_plugin_': undefined reference to `registerperturbmethod_'
perturb_pluginMod.o(.text+0xb2): In function `perturb_pluginmod_mp_perturb_plugin_': undefined reference to `registerperturbinit_'
perturb_pluginMod.o(.text+0xd2): In function `perturb_pluginmod_mp_perturb_plugin_': undefined reference to `registerperturbmethod_'
read_ecmwfreanal_elev.o(.text+0x542): In function `read_ecmwfreanal_elev_': undefined reference to `readforcingelev_'
read_edas_elev.o(.text+0x542): In function `read_edas_elev_': undefined reference to `readforcingelev_'
read_gdas_elev.o(.text+0x772): In function `read_gdas_elev_': undefined reference to `readforcingelev_'
read_princeton_elev.o(.text+0x582): In function `read_princeton_elev_': undefined reference to `readforcingelev_'
read_soils.o(.text+0x1e42): In function `read_soils_': undefined reference to `set_soilparam_'
readinputCatch.o(.text+0x2412): In function `readinputCatch_': undefined reference to `listask_for_point_'
readinputCatch.o(.text+0xe0b2): In function `readinputCatch_': undefined reference to `listask_for_point_'
readinputGaussian.o(.text+0x2f22): In function `readinputGaussian_': undefined reference to `listask_for_point_'
readinputGaussian.o(.text+0xe6c2): In function `readinputGaussian_': undefined reference to `listask_for_point_'
readinputLambert.o(.text+0x2c82): In function `readinputLambert_': undefined reference to `listask_for_point_'
readinputLambert.o(.text+0xde02): more undefined references to `listask_for_point_'
follow runmode_pluginMod.o(.text+0x72): In function `runmode_pluginmod_mp_runmode_plugin_': undefined reference to `registerlisinit_'
runmode_pluginMod.o(.text+0x92): In function `runmode_pluginmod_mp_runmode_plugin_': undefined reference to `registerlisrun_'
runmode_pluginMod.o(.text+0xb2): In function `runmode_pluginmod_mp_runmode_plugin_': undefined reference to `registerlisfinalize_'
sai_module.o(.text+0x25e2): In function `sai_module_mp_read_sai_': undefined reference to `readsai_'
sai_module.o(.text+0x2682): In function `sai_module_mp_read_sai_': undefined reference to `readsai_'
setmosp.o(.text+0x6622): In function `setmosp_': undefined reference to `readslope_'
soils_module.o(.text+0x84b2): In function `soils_module_mp_read_soils_': undefined reference to `readsoiltexture_'
soils_module.o(.text+0x9472): In function `soils_module_mp_read_soils_': undefined reference to `readsand_'
soils_module.o(.text+0xa392): In function `soils_module_mp_read_soils_': undefined reference to `readclay_'
soils_module.o(.text+0xb302): In function `soils_module_mp_read_soils_': undefined reference to `readsilt_'
soils_module.o(.text+0xc272): In function `soils_module_mp_read_soils_': undefined reference to `readcolor_'
soils_module.o(.text+0xd522): In function `soils_module_mp_read_soils_': undefined reference to `readporosity_'
soils_module.o(.text+0xe6d2): In function `soils_module_mp_read_soils_': undefined reference to `readpsisat_'
soils_module.o(.text+0xf5b2): In function `soils_module_mp_read_soils_': undefined reference to `readksat_'
soils_module.o(.text+0x10432): In function `soils_module_mp_read_soils_': undefined reference to `readbexp_'
soils_module.o(.text+0x111d2): In function `soils_module_mp_read_soils_': undefined reference to `readquartz_'
suppforcing_module.o(.text+0xa2): In function `suppforcing_module_mp_lis_get_supp_forcing_': undefined reference to `getsuppforc_'
```


Compilation on SGI-Altix ...

```
suppforcing_pluginMod.o(.text+0x492): In function `suppforcing_pluginmod_mp_suppforcing_plugin_':
: undefined reference to `registerdefinenativesupp_'
suppforcing_pluginMod.o(.text+0x4b2): In
function `suppforcing_pluginmod_mp_suppforcing_plugin_': undefined reference to `registersuppti_'
suppforcing_pluginMod.o(.text+0x4d2): In function `suppforcing_pluginmod_mp_suppforcing_plugin_': undefined
reference to `registersuppforcingfinal_'
vic_atmdrv.o(.text+0x1392): In function `vic_atmdrv_': undefined
reference to `vic_f2t_'
vic_binout.o(.text+0x182): In function `vic_binout_': undefined reference to `get_vicvar_'
vic_finalize.o(.text+0x1d2): In function `vic_finalize_': undefined reference to `free_vars_'
vic_gribout.o(.text+0xba2): In function `vic_gribout_': undefined reference to `get_vicvar_'
vic_gribout.o(.text+0xda2): In function `vic_gribout_': undefined reference to `get_vicvar_'
vic_gribout.o(.text+0xf92): In function `vic_gribout_': undefined reference to `get_vicvar_'
vic_gribout.o(.text+0x1182): In function `vic_gribout_': undefined reference to `get_vicvar_'
vic_gribout.o(.text+0x1372): In function `vic_gribout_': undefined reference to `get_vicvar_'
vic_gribout.o(.text+0x1562): more undefined references to `get_vicvar_'
follow vic_main.o(.text+0x232): In
function `vic_main_': undefined reference to `vic_run_'
vic_output.o(.text+0x462): In function `vic_output_':
: undefined reference to `vic_totinit_'
vic_readrestart.o(.text+0x10a2): In function `vic_readrestart_':
undefined reference to `rst_state_'
vic_readrestart.o(.text+0x1212): In function `vic_readrestart_': undefined
reference to `rst_state_'
vic_readrestart.o(.text+0x1382): In function `vic_readrestart_': undefined reference
to `rst_state_'
vic_readrestart.o(.text+0x15e2): In function `vic_readrestart_': undefined reference to
`rst_state_'
vic_readrestart.o(.text+0x1c52): In function `vic_readrestart_': undefined reference to `rst_state_'
vic_readrestart.o(.text+0x1ed2): more undefined references to `rst_state_'
follow vic_readrestart.o(.text+0x3462):
In function `vic_readrestart_': undefined reference to `initialize_model_state2_'
vic_readrestart.o(.text+0x35e2): In
function `vic_readrestart_': undefined reference to `rst_state_'
vic_setup.o(.text+0x402): In function `vic_setup_':
: undefined reference to `read_veglib_'
vic_setup.o(.text+0x772): In function `vic_setup_': undefined reference to `read_vegparam_'
vic_setup.o(.text+0xd72): In function `vic_setup_': undefined reference to `calc_root_fractions_'
vic_setup.o(.text+0x10b2): In function `vic_setup_': undefined reference to `vic_totinit_'
vic_setup.o(.text+0x16f2): In function `vic_setup_': undefined reference to `initialize_model_state_'
vic_varde.o(.text+0x652): In function `vic_varde_mp_vic_varde_ini_': undefined reference to `vic_allocate_'
vic_writerestart.o(.text+0x3f2):
In function `vic_writerestart_': undefined reference to `get_vicrstvar_'
vic_writerestart.o(.text+0x522):
In function `vic_writerestart_': undefined reference to `get_vicrstvar_'
vic_writerestart.o(.text+0x652):
In function `vic_writerestart_': undefined reference to `get_vicrstvar_'
vic_writerestart.o(.text+0x7e2): In
function `vic_writerestart_': undefined reference to `get_vicrstvar_'
vic_writerestart.o(.text+0xbc2): In function `vic_writerestart_': undefined reference to `get_vicrstvar_'
vic_writerestart.o(.text+0xe12): more undefined
references to `get_vicrstvar_'
follow gmake: *** [LIS] Error 1
Tags: sgi, lis, compiling, linking
```

[geiger](#) 19 posts since

Sep 20, 2007 [1. Re: Compilation on SGI-Altix](#) Apr 24, 2008 9:15 AM

Hello,

Would you post the configure.lis file that Bart is using? I want to see which compilers he is using.

Jim

[geiger](#) 19 posts since

Sep 20, 2007 [2. Re: Compilation on SGI-Altix](#) Apr 24, 2008 9:20 AM

Hello,

By the way, the configure.lis.linux_ifc is the file that we use on our SGI-Altix systems. I suggest that Bart take a look at it.

Jim

Compilation on SGI-Altix ...

[sntnello](#) 6 posts since

Sep 20, 2007 [3. Re: Compilation on SGI-Altix](#) Apr 24, 2008 9:28 AM

I believe he did take a look at the sample configure.lis. Here is the one he set up:

```
FC = ifort LD = ifort FC77 = ifort CC = gcc cc = gcc INC_NETCDF = /project/sw/knmi/dist/netcdf-3.6.1/include  
LIB_NETCDF = /project/sw/knmi/dist/netcdf-3.6.1/lib LIB_MPI = INC_MPI = ESMFROOT =  
$(HOME)/LIS/ESMF/esmf LIB_ESMF = $(ESMFROOT)/lib/libO/Linux.intel.64.mpi.default MOD_ESMF =  
$(ESMFROOT)/mod/modO/Linux.intel.64.mpi.default CFLAGS = -c -O2 -DLITTLE_ENDIAN FFLAGS = -c  
-O2 -DHIDE_SHR_MSG -DNO_SHR_VMATH -convert little_endian -i4 -I$(MOD_ESMF) -I$(INC_NETCDF)  
FFLAGS77 = LDFLAGS = ./lib/w3lib/libw3.a ./lib/read_grb/readgrb.a ./lib/grb/griblib.a -L$(LIB_ESMF)  
-lesmf -L$(LIB_NETCDF) -Lnetcdf -L/project/sw/intel/cc-9.1.039/lib -L/usr/lib/gcc-lib/ia64-suse-linux/3.3.3/  
-L/usr/lib/gcc-lib/ia64-suse-linux/3.3.3/../../ -WI,-rpath,$(LIB_ESMF) -lmpi -lmpi++ -limf -lm -lipgo -lstdc++ -lirc -lipr  
-lgcc_s -lgcc -lcxaguard -lirc -lpthread -lgcc_s -lirc_s -ldl -lrt -ldl -lc
```

[geiger](#) 19 posts since

Sep 20, 2007 [4. Re: Compilation on SGI-Altix](#) Apr 24, 2008 9:51 AM

Hello,

I believe that Bart should add -DIFC to his CFLAGS and FFLAGS.

Jim